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TITLE

PROCESS FOR THE PREPARATION OF 1,1,1,3,3-PENTAFLUOROPROPANE AND 1,1,1,2,3-PENTAFLUOROPROPANE ABSTRACT OF THE DISCLOSURE

A process is disclosed for the manufacture of $CF_3CH_2CHF_2$ and CF_3CHFCH_2F . The process involves (a) reacting hydrogen fluoride, chlorine, and at least one halopropene of the formula $CX_3CCI=CCIX$ (where each X is independently F or CI) to produce a product including both $CF_3CCI_2CCIF_2$ and $CF_3CCI_2CCIF_2$ and $CF_3CCI_2CCIF_2$ and $CF_3CCI_2CCIF_2$ and $CF_3CCI_2CCIF_2$ and $CF_3CCI_2CCIF_2$ and $CF_3CCI_2CCIF_2$, and $CF_3CH_2F_2$, and $CF_3CH_2F_3$, and $CF_3CH_2F_3$, and $CF_3CH_2F_3$, and $CF_3CH_2F_3$ and $CF_3CI_2CIF_3$ are produced in (b). In (a), the $CF_3CCI_2CCIF_2$ and $CF_3CCI_2FCCI_2F_3$ are produced in the presence of a chlorofluorination catalyst including a $CF_3CCI_3CI_3$ are produced in the presence of a chlorofluorination catalyst including a $CF_3CI_3CI_3$ and $CF_3CI_3CI_3$ are produced in the presence of a chlorofluorination catalyst including a $CF_3CI_3CI_3$ are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of a chlorofluorination catalyst including a CF_3CI_3 are produced in the presence of

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